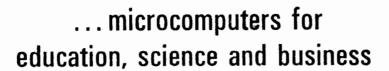
Lucas Nascom



RECOMMENDED RETAIL PRICES

Effective Date

lst May 1983

(Prices exclude V.A.T. and P & P)

(Prices subject to change without notice)

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General & Educational Software

for

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Issue 3. June 1983

CATALOGUE

Business & Leisure Microcomputers

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Introduction. It is the aim of B & L Microcomputers Software Division to make available to Parents and Educational Authorities high quality software for the Nascom microcomputer designed to be of value in teaching both at School and in the home. Programs which aid administration and record keeping are included in this catalogue as well as some selected games which have an educational value. The programs offered have to meet a carefully prepared specification designed to ensure their suitability for their purpose, their ease of use and the quality of the supporting instructions and tutorial notes.

Technical Details Programs are normally supplied on tape recorded in Nascom 2 format at 1900 band. Most programs require, as a minimum, Microsoft Basic v 4.7 and NAS-SYS1 or 3. Details of any special requirements for the program and the minimum amount of RAM required are given in the program description in the catalogue.

<u>Copyright</u> All programs offered in this catalogue are the copyright of B & L Microcomputers or of the Authors. It is a condition of sale that the program is used only on the specific machine for which it was purchased and that the purchaser does not copy the program (except for precautionary back-up purpose) nor disposes of the program to others in any way.

Additional Programs. In seeking to expand the range of suitable coftware available. B & L Microcomputers would be interested in any programs or ideas which readers of this Catalogue might put forward. For programs which can meet the specification and are suitable for inclusion in the catalogue, Authors will receive generous payments on a Royalty basis. To encourage todal for programs from those who may not feel able to devote the time and effect to writing a program. B & L Microcomputer: are offering prizes for the less contributions.

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- A.1 "TOP PHYSICIST" Simulates the multiple choice questions which are part of the GCE, CSE and 16 Plus exams, teaching the subject and important examination techniques. A first class aid to good exam results. Requires 32K RAM. Copyright D.Mayes & B & L Microcomputers.
- A.2 "TOP MATHEMATICIAN" This game is designed to improve mathematical skills over a wide range of ages in school or at home. An excellent program which makes mathematics fun to learn. Requires 16k. Copyright D.Mayes & B&L Microcomputers.
- A.3 "TOP HUMAN BIOLOGIST" See "Top Physicist" above.
- A.4 "TOP CHEMIST" See "Top Physicist" above.
- A.5 <u>"TOP TABLER"</u> A splendid game for teaching or improving the times tables in school or at home. An amusing program which is recommended for the way in which it makes learning tables fun. Requires 32K. Copyright D. Mayes & B&L Microcomputers.
- A.6 "TOP WORD PUZZLE MAKER" Use this program to produce up to hundreds of DIFFERENT word puzzles from the SAME set of words. This program is a MUST for anyone interested in entertaining, selling or educating. Clues can be included in the printed puzzle if required. A PRINTER is essential as the puzzles are NOT played on a video screen but are presented on paper printed by the computer. The players do not need to use the computer. Requires 32K as well as the printer (Serial or Parallel). Copyright D.Mayes and B & L Microcomputers. (See Page 7 for examples of word puzzles)
- A.7 "VOCABULARY" A program to help acquisition of an improved vocabulary for students of French or German. Includes facilities for self-test or computer scored testing. The vocabulary of over 100 word pairs can be altered by the teacher. Requires 8K. Copyright E.Anderson & Program Power.
- A.8 <u>"TEST CARDS"</u> Simple reading test using large characters on the screen. Four sets of words similar to those in currently popular teaching books. Facilities for additional words. Needs less than 8K. Copyright D.R.Green & Program Power.
- A.9 "MIND BENDER" A game designed to encourage logical thought and systematic approach to problem solving. Loaded using the "R" command. Executed at 1000H. Requires less than 4K. Copyright S.Beresford & Program Power.
- A.10 "GRAPH PLOT" A very useful program for rapid display of the graph of an equation of the form y=function of x. The user specifies the origin and range of the x and y axes. Requires 8K. Copyright S.R.Wilson & Program Power.

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Ref	<u>Title</u>	Page	<u> 21</u>	rice (incl. VAT)
A.1	"TOP PHYSICIST"	1.		£10.00
A.2	"TOP PHYSICIST" "TOP MATHEMATICIAN"	1.		£10.00
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A.10	"GRAPH PLOT"	1.		£ 5.69
A.11		2.		£ 5.69
A.12		2.		£ 6.51
A.13	"PHYSICS LABORATORY	2.		£10.00
UTILI	TY & LANGUAGE PROGRAMS			
B.1	"PASCAL"	4.	EPROM	£86.25
B.2	HDACCI DOCH	4	TAPE	£51.75
B.3	"PASCLDOS" "EXTENDED BASIC"	4. 4.	TAPE	£17.25
D+3	EXICADED PHOTE	7.	DISC	£46.00 £69.00
B.4	"NAS-SEMBLER"	4.	DISC	£51.75
B.5	"WIRRAL PILOT"	4.		£14.37
B.6	"NASPEN"	4.		£34.50
B.7	"NASPEN EXTENSIONS"	4.		£17.50
B.8	"ZENTHOR NASPRINT"	4.		£ tba
8.9	"SUPERPEN"	5.		£ tba
B.10	UMANOOU	5.		£57.50
B.11	"NAS-CALC" "NAS-NET 1	4.		£80.50
B.12	"NAS-NET 1	5.		£(p.0.3)
B.13	"NASCII"	5.		£ 5.69
B.14	"CLUE MEMBERSHIP"	6.		£ 7.99
B.15	"HULLFORTH"	6.		£28,75
B.16	"ZEAP"	6.	TAPE	£28.75
B.17	"ZEAP DISC"	6.	DISC	£42.55 £ 5.75

EDUCATIONAL PROGRAMS(Continued)

- A.11 "CONSTELLATION" This program turns your screen into a "telescope" to view the stars from any point in the Northern Hemisphere, at any time and date. Stars can be displayed by magnitude, constellation or individually from a numbered list supplied. The telescope can be rotated, raised or lowered and zoomed in or out. There is a facility for printing out a star map. Requires 16K. Copyright Program Power.
- A.12 "BUTTERFLY" A competitive game based upon Addition, Subtraction, Multiplication and/or Division of variable degrees of difficulty for up to four pupils. The prize is a picture of a beautiful butterfly. Requires less than 8K. Supplied on tape at 300 & 1200 Baud.
- A.13 PHYSICS LABORATORY. This is a suite of eight programs designed primarily for use with "A" Level classes though some of them could be used profitably in the final year of "O" Level. The whole program occupies about 12.5K of memory and requires NASCOM graphics. The programs are intended as teaching aids to be used as part of lessons on the relevant topics. Comprehensive Tutorial Notes are supplied. Copyright B.M.Hawkes and B & L Microcomputers.
 - 1. Beats. A program to show the way in which two waveforms of similar frequency combine to produce a single wave of varying amplitude. There are three options available; the first displays two component waves of the same amplitude and frequency ratio of 4.5, the second displays their sum, and the third their difference.
 - 2. Simple Harmonic Motion. Many text-books give a preliminary explanation of s.h.m. by describing it as the motion of a point along a line which is the projection of a point moving with uniform angular velocity in a circle. This is not easy to demonstrate in practice and this program provides a clear visual demonstration.
 - 3. Fourier. In teaching sound, one always points out that the quality of a musical note can be considered as depending on either the waveform of a note or the harmonic content, and that these are simply two different ways of looking at the same thing. However, it is not easy to demonstrate the equivalence unless one has a large number of audio frequency oscillators of exceptional frequency stability. This program shows how a square wave and a triangular wave, the two types available on most a.f.os can be built up from a sine wave and its harmonics.
 - 4. Waves. This program shows the movement of particles in three types of wave: a stationary transverse wave, a travelling transverse wave and a stationary longitudinal wave. In the first two, about two cycles are shown. In the third, one and a half cycles are shown in order to obtain sufficient definition. The travelling wave moves from right to left and incorporates a "bottomed" section to make the travelling more obvious.

(Continued on next page)

EDUCATIONAL PROGRAMS (Continued)

A.13PHYSICS LABORATORY. (Continued)

5. Damping. This program plots the graph of the motion of a particle under harmonic motion with degrees of damping from 0 (i.e. s.h.m) up to 2.5 times the critical value. An arbitary factor "K" is typed in and the graph is then plotted.

& Lissajous Figures. Although an oscilloscope is a valuable tool for comparing frequencies by the use of Lissajou's figures, it is difficult for inexperienced students to identify the patterns since they will rarely remain stationary for long enough to identify. With a large-screen oscilloscope, it is possible to point out the pattern at the key moment but such instruments are too expensive for most of us. This program shows the pattern given by integral or half integral frequency ratios so that students will know what to look for.

7. Geiger Experiment. Geiger and Marsden's experiment, although a classic, is not reproducible with normal school apparatus. This program produces a simulation of the experiment pictorially. A nucleus is located at the top left hand corner of the screen and alpha particles bombard it, approaching horizontally from the right at random levels. It is intended that the program should be used as an illustration after describing the original experiment.

8. Millikan's Experiment Like Geiger and Marsden's experiment, Millikan's experiment is an important and classic example. Although it is possible to obtain apparatus for school use, it is expensive and hard to use. Only one student can perform the experiment at a time. This program provides a simulation either for class use or for use by small groups or individuals. The only additional apparatus needed being stopwatches. After displaying the basic data on the screen, the program shows the graticule which would be seen through the microscope and asks for the voltage on the plates to be specified. When this is done and the ENTER key pressed, an oil drop appears on the screen and its fall past the graticule can be timed.

UTILITY & LANGUAGE PROGRAMS

- B.1 "PASCAL" Nascom Pascal is a complete 12K Pascal Language system for use with Nascom 1 or 2 with NAS-SYS 1 or 3 monitor. It consists of a runtime package (4.5K), a control program (0.5k), an on-screen editor (1.5K) and a compiler (5.5K). The compiler directly compiles Z80 machine code at 2000 lines per minute resulting in a program which executes at speeds 3 to 20 times faster than equivalent Basic programs. Available on tape, (residing at 1000H to 3FFFH), or EPROMS (D000H to FFFFH).
- B.2 "PASCLDOS" A disc extension to Nascom or BLS Pascal which allows loading and saving to disc as well as tape. It is also possible to compile to disc when memory is short. Sequential files of Integers Real and Strings as well as Random files of Strings are supported. Requires 48K.
- B-3 "ENHANCED BASIC" An exceptionally powerful and flexible implementation of the BASIC programming language. There are many novel features including the facility for users to alter and extend the language to meet their own requirements. There is full screen editing; variable names of up to 5 characters; integer arrays for compact data storage; IF..THEN..:ELSE is permitted in a single statement; support of data and program files allowing output to tape, printer and (for the disc version) to disc; statements may be up to 128 characters in length which can be increased to 254 characters by declaring a larger input buffer. Requires at least 16K. Tape version available now.
- B.4 "NAS-SEMBLER" For the NASCOM user with NASDOS floppy disc system. Provides one of the most powerful assembler packages available on any microcomputer. NAS-SEMBLER is designed for the Z80. There are optional cross-assemblers for 6800 and 6502 microprocessors. Occupies approx. 6K of memory.
- B.5 "WIRRAL PILOT" A language written with Computer Assisted Learning (CAL) in mind. This version for the Nascom was written by Alec Wood of the UK Pilot Users Group. Pilot is particularly adept at fast matching of long strings giving a considerable advantage over Basic for interactive learning projects. Mathematical calculations are the same as in Integer Basic. Supplied on Tape with programming manual. Occupies 0E7DH to 1FFDH.
- B.6 "NASPEN" A word processing program for the Nascom giving the ability to store and edit text entered either from the keyboard or from tape. Comprehensive set of commands available for editing including block moves, formatting, right justification, tabulation and paging. Facilities for printing or saving to tape. Requires 16K. Supplied in 2 EPROMS and resides at B800H to BFFFH. There are versions for NAS-SYS monitors or for the earlier Nascom monitors. Will also run in RAM for Disc systems.

UTILITY & LANGUAGE PROGRAMS

B.7 "NASPEN EXTENSIONS" Gives a number of most useful extensions to Naspen including saving and loading to disc (for the disc version) and additional editing commands. There is a facility for the addition of extra extensions by the user. The operation of many commands has been speeded up. Printer routines are included. Suitable for 32K or 48K systems.

B.8 <u>"TENTHOR NASPRINT"</u> Print extensions to Naspen. Providing facilities for printing page numbers, printing headings to each page, performing a Mail Merge and for setting the left margin.

B.9 "SUPERPEN" Consists of NASPEN and all the extensions combined in one package. There are additional features such as word count and adjustment of the left margin within the text. For disc systems only.

B.10 "MANOR" A general purpose database management program for the NASCOM with NAS-DOS disc system. A very versatile system with almost limitless applications. Typical uses include customer records, exhibition enquiries, parts list, drawing files, stock control, machine maintenance records and scheduling, personnel or pupil records and cataloguing (eg records, books, files etc). Supplied with initialising program, HINTON, for configuring the the system to suit the application. MANOR typically can handle between 500 and 1500 records of up to 30 different items of data. The maximum capacity depends upon the number of items stored in each record and the number of characters in each item. Records can be created and can be added to the file, existing records can be edited deleted or listed to screen or printer. There are facilities for sorting and for searching files as required. The format of the printout can be varied. Supplied on Disc, the program requires 48K and can be configured to suit NAS-SYS 1 or 3 and a variety of printers.

B.11 "NAS-CALC" A NASCOM implementation of a "computerised worksheet" to store and manipulate data in up to 100 rows and 100 columns. The width of each column can be between 3 and 43 characters. Column width, number of rows and columns can be specified when the program is initialised and can be changed during operation of the program. Almost any mathematical relationship can be specified between rows and columns. There is provison for totalisation, series arithmetic and low level matrix algebra. The data created may be stored and subsequently retrieved using tape or disc. All or selected parts of the display may be printed. Applications for this general purpose package are almost limitless and include, for example, price lists, works schedules, sales planning and return calculations, budget planning, personal acount and tax returns. Suitable for the Nascom 2 or 3 (or Nascom 1 with Nascom 2 Keyboard facilities) with tape or NASDOS disc system.

B.12 "NAS-NET 1 A low cost system which allows the sharing of resources within a network of linked NASCOM microcomputers. A central "master" computer can be linked with up to 32 satellite computers. The system allows all the machines to share the disc and printer facilities of the master. The master must be a Nascom 1,2 or 3 equipped with the NAS-DOS disc operating system; the satellites can be any Nascom 1,2 or 3 fitted with NAS-SYS 1 or 3. The links, which can be up to at least 50 ft, consist of 3 core cables using the RS 232 connections on master and satellite through a multiplexer unit.

UTILITY & LANGUAGE PROGRAMS

B.13 "NASCII" Enables large characters to be formed on the screen. Letters, including lower case with descenders, numerals and punctuation can be displayed. User defined characters may also be used. There is provision for left or right justification or centering of text. Two programs are supplied, one is a demonstration package and the other is a routine to include in your own programs. Requires & and NASGRA. Copyright D.R.Green & Program Power.

B.14 "CLUB MEMBERSHIP" A useful program for a simple list of names and addresses (up to 200 in 32K). Could be used for other purposes, eg lists of pupils. Names, addresses, dates and remarks can be included and subscriptions where appropriate. Simple but comprehensive facilities for entry and editing of items. Lists are stored and retrieved from tape. Requires 32K and a serial printer at 300 or 1200 baud. Copyright Program Power.

B.15 "HULLFORTH" This is a new compiler/interpreter for the Nascom based upon the language "Forth". It is an important new programming language which provides a simple to use, interactive programming environment allowing complex software to be produced "at the keyboard" but, because the final program is truly compiled, it is without the speed penalty of BASIC.

The unique combination of stack orientated, reverse Polish integer arithmetic (up to 32 bits as standard) with high level structuring (DO..LOOP; IF..ELSE..ENDIF; BEGIN..UNTIL) enables well structured and readable programs to be written resulting in compiled code which is fast and efficient.

The vocabulary is indefinitely extendible which means that the programmer is not limited to the standard set of reserved words. New words, defined by the programmer, become part of the vocabulary. "Hullforth" requires 8K plus dictionary space which grows upwards as the programming proceeds. Available on tape for Nascom 1 with NASBUG or NAS-SYS 1 or 3 and for Nascom 2 with NAS-SYS 1 or 3. Supplied with a comprehensive Reference Manual and self teaching quide.

B.16 "ZEAP" This is an Editor-Assembler package for the Nascom. Editor part of the package facilitates entry, examination, correction and permanent storage of source programs written in the Z80 mnemonic The Assembler translates these programs into executable language machine code. The user has control over memory allocation and there are comprehensive error checking routines. The resulting object program can be stored on tape or directly in memory. supplied in two 2708 EPROMS and resides at DOOOH to DFFFH. There is a tape version which resides at 1000H to 1FFFH. A further 4K of memory is required for the source and object programs i.e. a miniumum of 8K. ZEAP is for use with Nascom 1 or 2 with NAS-SYS. There is a version for the NASBUG monitors.

B.17 "ZEAP DISC" This extension to ZEAP allows NASDOS users to load, save and append files from disc. There is also a Directory command which displays all the ZEAP files available on the current disc drive. Parallel and Serial Printer routines are included. ZEAP DISC is supplied on disc and, when loaded and executed, it automatically modifies, and then transfers control to ZEAP.

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WORD PUZZLE MAKER

Sample Puzzles

<u>Jersion 1</u> Deliberately made easy by using lower case letters.

Version 2 Normal Puzzle

1 Version 1.

QBherring Common small bird 1 OHtibbarE 2 British canine symbol RJHWLEIEA 3 Unsmoked kipper A X U c a 1 f Z H An animal with long ears HFIJCIYGS A young cow worrapsTQ Q g o d l l u b A DVQBAIXHD FRZOUWHUJ

1 Version 2.

M Z B C F J P S 1 London's river
E T T F W S V W 2 Can be a bore
R H E O E E T O 3 Famous for Liver birds
S A N E V V D J 4 There is a new castle here
E M Y T T E K Y
Y E T Q J R D N
Z S Q G Z N B M
Z B F R L M M T

Lucas Microcomputers

DESCRIPTION	PRODUCT GROUP	LIST
		PRICE
		三本本本
LOTTI SOFTWARE WORDSTAR : SPELLSTAR :	APPLICATION SOFTWARE BOTH APPLICATION SOFTWARE CP/M APPLICATION SOFTWARE CP/M	250.00
WORDSTAR :	APPLICATION SOFTWARE CP/M	295.00
SPELLSTAR #	APPLICATION SOFTWARE CP/M	145.00
SUPERCALC 2	APPLICATION SOFTWARE CP/M	200.00
FRIDAY!	APPLICATION SOFTWARE CP/M	195.00
dBASE2	APPLICATION SOFTWARE CP/M	438.00
WORDSTAR PROFESSIONAL	APPLICATION SOFTWARE CP/M	0.00
	HITETOHITON SOFTWARE CENT	145.00
FINAS (7 MODULES)	APPLICATION SOFTWARE CP/M	1399.00
FINAS (6 MODULES)	APPLICATION SOFTWARE CP/M	1249.00
SALES ORDER PROCESSING	APPLICATION SOFTWARE CP/M	249.00
PURCH ORDER PROCESSING	APPLICATION SOFTWARE CP/M	249.00
SALES LEDGER	APPLICATION SOFTWARE CP/M	249.00
PURCHASE LEDGER	APPLICATION SOFTWARE CP/M	249.00
NOMINAL LEDGER	APPLICATION SOFTWARE CP/M	249.00
	APPLICATION SOFTWARE CP/M	249.00
STOCK CONTROL NEWSPAC	APPLICATION SOFTWARE CP/M	249.00
NEWSPAC	APPLICATION SOFTWARE CP/M	500.00
MANOR	APPLICATION SOFTWARE NAS APPLICATION SOFTWARE NAS APPLICATION SOFTWARE NAS	50.00
NASPEN ON DISK	APPLICATION SOFTWARE NAS APPLICATION SOFTWARE NAS APPLICATION SOFTWARE NAS	30.00
NASCALC ON DISK	APPLICATION SOFTWARE NAS	70.00
CORPLAN	APPLICATION SOFTWARE NAS	40.00
O1 42	ACTE CHILD'S SOFTWAKE 1443	60.00
RAMB 48K POP TO 16K	BOARDS	100.00
	BOARDS	130.00
AVC BOARD	BOARDS	149.95
256K MAP 80 FULLY POP	BOARDS	285.00
256K MAP 80 POP TO 64K	BOARDS	150.00
MPI BOARD, ALL FACILITIES		8.00
MPI BOARD, WINI + FDC	BOARDS	0.00
MPI SERIAL I/FACE CARD	BOARDS	0.00
PARALLEL PRINTER CABLE	CABLES	29.00
COLOUR CABLE INTERNAL	CABLES	20.00
SERIAL PRINTER CABLE	CABLES	19.00
PRINT CABLE INTERNAL P'L	CABLES	19.00
LOTTI CABLE (SPLIT)	CABLES	25.00
WORKSTATION CABLE	CABLES	59.95
EXTNL COL MONTR CABL SING	CABLES	9.00
DUAL SS/DD (E)	DISK SYSTEMS	535.00
DUAL DS/DD (F)	DISK SYSTEMS	789.00
SINGLE SS/DD DRIVE (E)	DISK SYSTEMS	295.00
DRIVE MODULE SS/DD	DISK SYSTEMS	250.00
DRIVE MODULE DS/DD	DISK SYSTEMS	285.00°
5 Meg WINCHESTER + CONTR	DISK SYSTEMS	1425.00
10 Meg WINCHESTER+CONTR	DISK SYSTEMS	1800.00
20 Meg WINCHESTER + CONTR	DISK SYSTEMS	2200.00

Prices exclude VAT & Plf.
Prices subject to change without notice.

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	DESCRIPTION	PRODUCT GROUP	LIST PRICE
Ė			Famus
	NAS 3 CONVERSION		285.00
	DISKETTES SS/DD (10 off)		30.00
	DISKETTES DS/DD (10 off)	DISKETTES	42.50
	NASCOM 2 KEYBOARD	KEYBOARDS	69.90
	NAS 1 KEYBOARD	KEYBOARDS	9.00
	LX KEYBOARD	KEYBOARDS	130.00
	PIO KIT WART KIT	KITS	12.00
		KITS	30.00
	NAS 1 BUFFER BOARD KIT 3 Amp PSU KIT	KITS	0.00
	RAMB 16K KIT COMPLETE	KITS KITS	35.00
	FOUNDEDARMICS VIT	KITS	15.00
	ECONOGRAPHICS KIT I/O BOARD KIT		10.00
	NAS 1 Kit	KITS KITS	65.98
	PAGE-MODE KIT	KITS	49.95 18.50
		KITS	225.00
	CP/M SWITCH KIT	KITS	40.00
	MT80 RS232 KIT	KITS	55.00
	16K UPGRADE FOR RAMB	KITS	15.00
	CTC KIT	KITS.	14.00
	CTC KIT PASCAL (Tape) PASCAL (EPROM)	LANGUAGES	45.00
	PASCAL (EPROM)	LANGUAGES	75.00
	MBASIC	LANGUAGES	220.00
	ENHANCED BASIC (Tape)	LANGUAGES	40.00
	EXTENDED BASIC CP/M DISC	LANGUAGES	60.00
	EXTENDED BASIC NDOS DISC	LANGUAGES	60.00
	LOTTI - 48K NASDOS	LOTTI	2995.00
	LOTTI CP/M (64K)	LOTTI	3195.00
	LOTTI CP/M-NASDOS	LOTTI	3295.00
	LOTTI SYSTEM (256K)	LOTTI	3330.00
	DATA SHEETS RAMB MANUAL	MANUALS	6.00
	I/O BOARD MANUAL	MANUALS	1.50
	CP/M 2.2 USER GUIDE	MANUALS MANUALS	1.00
	OSBORNE CP/M MANUAL	MANUALS	21.43
	GRAPHICS MANUAL	MANUALS	21.43 8.75
	GRAPHICS MANUAL	MANUALS	
	USER MANUAL VOL. 1	MANUALS	8.75 10.00
	OPERATING SYSTEMS	MANUALS	12.50
	UTILITIES (VOL. 5)	MANUALS	22.00
	RAM, PSU, 1/0, NASCALC (VOL6)	MANUALS	8.75
	NASPEN MANOS NASCALC (V7)	MANUALS	7.50
	SPEX MANUAL	MANUALS	3.00
	AVC CP/M TERMINAL MANUAL	MANUALS	1.00
	NASCALC MANUAL	MANUALS	1.50
,	MANOR MANUAL	MANUALS	1.50

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DESCRIPTION	PRODUCT GR		LIST PRICE
			P2222
EXTENDED BASIC MANUAL	MANUALS		4.00
NACTOR MANUAL	MANUALS		2.00
NAS-SYS 1 MANUAL	MANUALS		3.00
NAS-SYS 3 MANUAL	MANUALS		3.00
NASDOS UTILITIES MANUAL	MANUALS		1.60
NASDIS MANUAL	MANUALS		3.25
NASSEMBLER MANUAL	MANUALS		2.00
NASPEN MANUAL	MANUALS		1.00
NASBUS MANUAL	MANUALS		1.00
	MANUALS		1.00
ZEAP MANUAL	MANUALS		4.00
	MANUALS		9.00
NASNET SATELLITE MANUAL NAS 3 MOTHER BOARD	MANUALS MISC		9.00
19" VERO CARD FRAME KIT	MISC		7.50 20.00
VERO DIP BOARD	MISC		0.00
11" VERO MOTHER BOARD	MISC		0.00
NASCOM 3 CARD FRAME KIT	MISC		49.50
DRW TESTER (BUILT)	MISC		145.00
NASCOM 2 GRAPHICS ROM	MISC		15.88
77 WAY EDGE CONNECTOR	MISC		4.20
NAS 1 43 WAY EDGE CONNCTR	MISC		0.00
19" CARD FRAME	MISC.		14.00
12" B & W (PLASTIC)	MONITORS		99.00
14" MICROVITEC Med Res	MONITORS		3/5.00
NAS 2 b & t, no RAM	NAS 2		285.00
NASCOM 3. 48K	NAS 3		549.00
NAS 3, 64K	NAS 3		8.88
64K CPM+FDC+AVC	NAS 3 NAS 3	<i>i</i> :	1099.00
48K NDOS+FDC NAS 3 (NO RAM)	NAS:3		739.00 449.00
64K CPM+NDOS+FDC+AVC		100	1199.00
NAS 3.256K+CPM+FDC+AVC	NAS 3		1234.00
NASNET WORKSTATION	NETWORKS		9.00
NASNET MASTER KIT	NETWORKS		0.00
MULTIPLEXER	NETWORKS		99.95
CP/NET, S/WARE & CABLES	NETWORKS		0.00
PRINTER RIBBON - IMP	NO LONGER AVAILABLE		9.95
NASDOS	OPERATING SYSTEMS		69.00
NAS-SYS 3 (EPROM)	OPERATING SYSTEMS		20.00
CP/M (Single Sided)	OPERATING SYSTEMS		100.00
NAS-SYS 1 (EPROM)	OPERATING SYSTEMS		12.00
CP/M (Double Sided)	OPERATING SYSTEMS		100.00
MT80 PRINTER RIBBON	PRINTER RIBBONS		5.00
TEC 1550 PRINTER RIBBONS	PRINTER RIBBONS		4.50
, TEC 1550 P	PRINTERS		599.00

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DESCRIPTION	PRODUCT GROUP	LIST PRICE
TEC F10-40 STARWRITER LX80 SERIAL PRINTER MT80 BROTHER HR15 EPSON RX100 ZEAP (EPROM) & MANUAL ZEAP (Tape) & MANUAL NAS-DEBUG (EPROM) NASDIS (EPROM) NAS-DIS/NAS-DEBUG (Tape) NASSEMBLER POLYSIS 4.3 (Tape) POLYSIS 4.3 (EPROM) 4" MOTHER BOARD (MINI) NAS 3 CASE RAM B BOARD 48K FULLY POP COLOUR MONITOR (METAL) PLOTTERS PENS - FIBRE PL1000 PLOTTER (SERIAL) SPDIL SWITCH × SDSO TIL SWITCHES O SCSO N2V CHIP N2DB CHIP 4116 CHIP OIL-BASED PLOTTER PENS	PRINTERS PRINTERS PRINTERS PRINTERS PRINTERS PROGRAMMING AIDS SUNDRIES	109.00 00.00 00.00 2